FM/MW/LW STEREO SYNTHESIZER TUNER

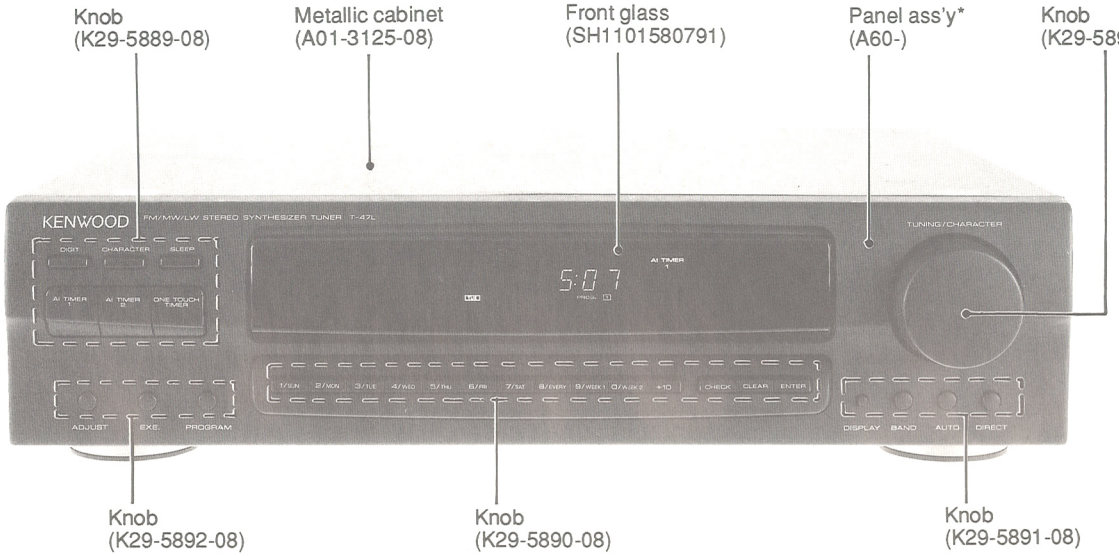
T-47/L

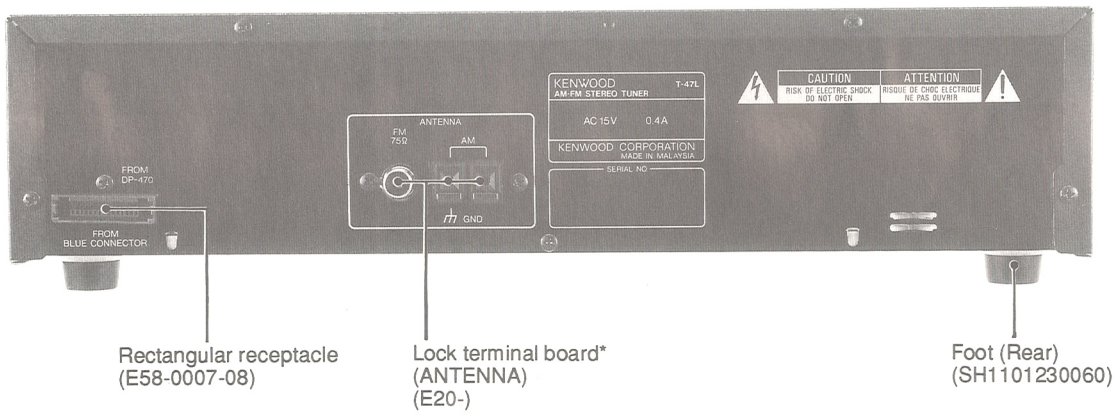
SERVICE MANUAL

(M-47)

KENWOOD

B51-4738-00 (S) 2318





T-47 and T-47L don't have a power supply transformer. Use A-47 or RM-90PS power supply to supply power, if neither is available, adjust to operate as instructed on page 9.

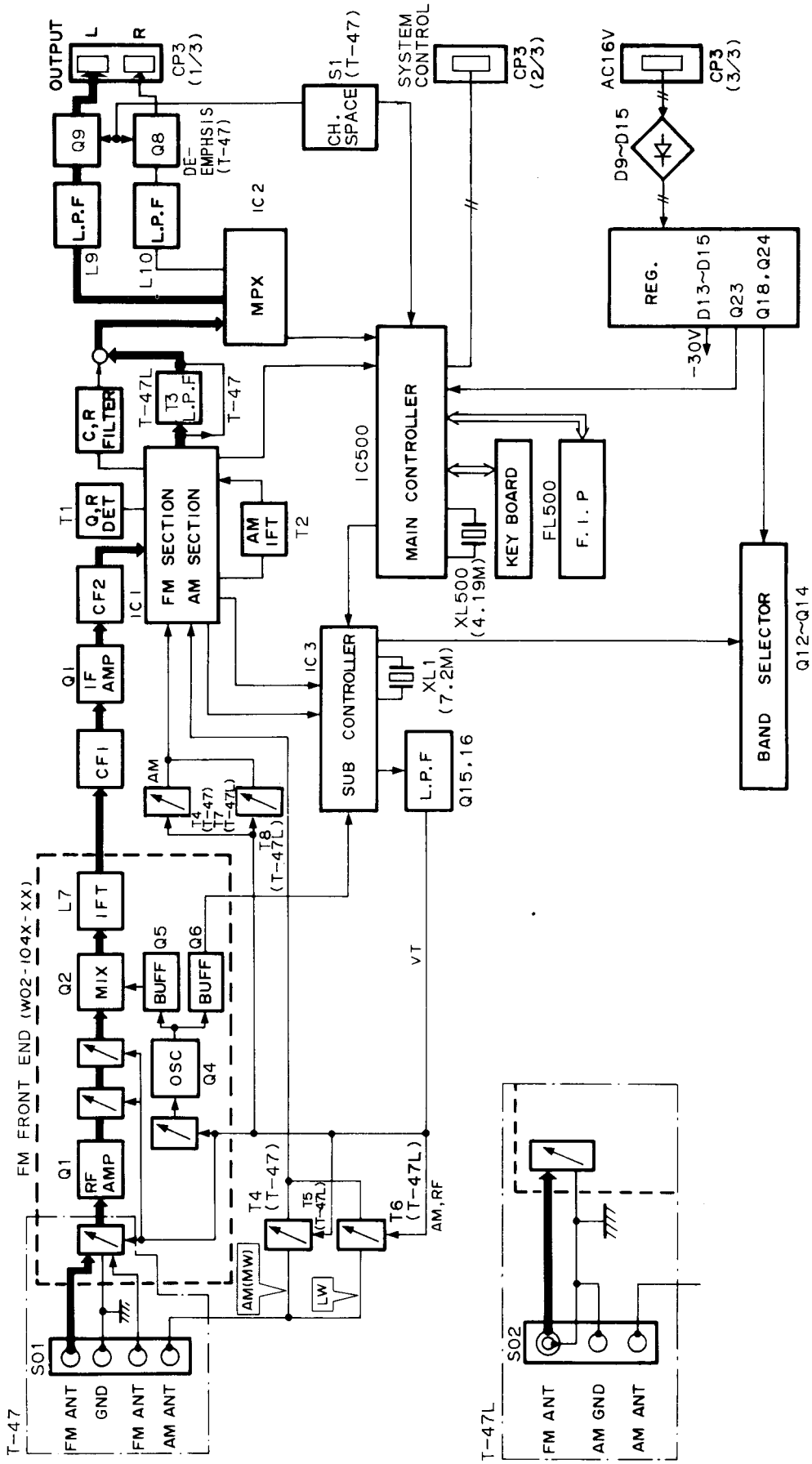
When turning the power on, short the connector pin of CN201 (X05-B/2).

* Refer to parts list on page 26.

T-47/L

CONTENTS

BLOCK DIAGRAM

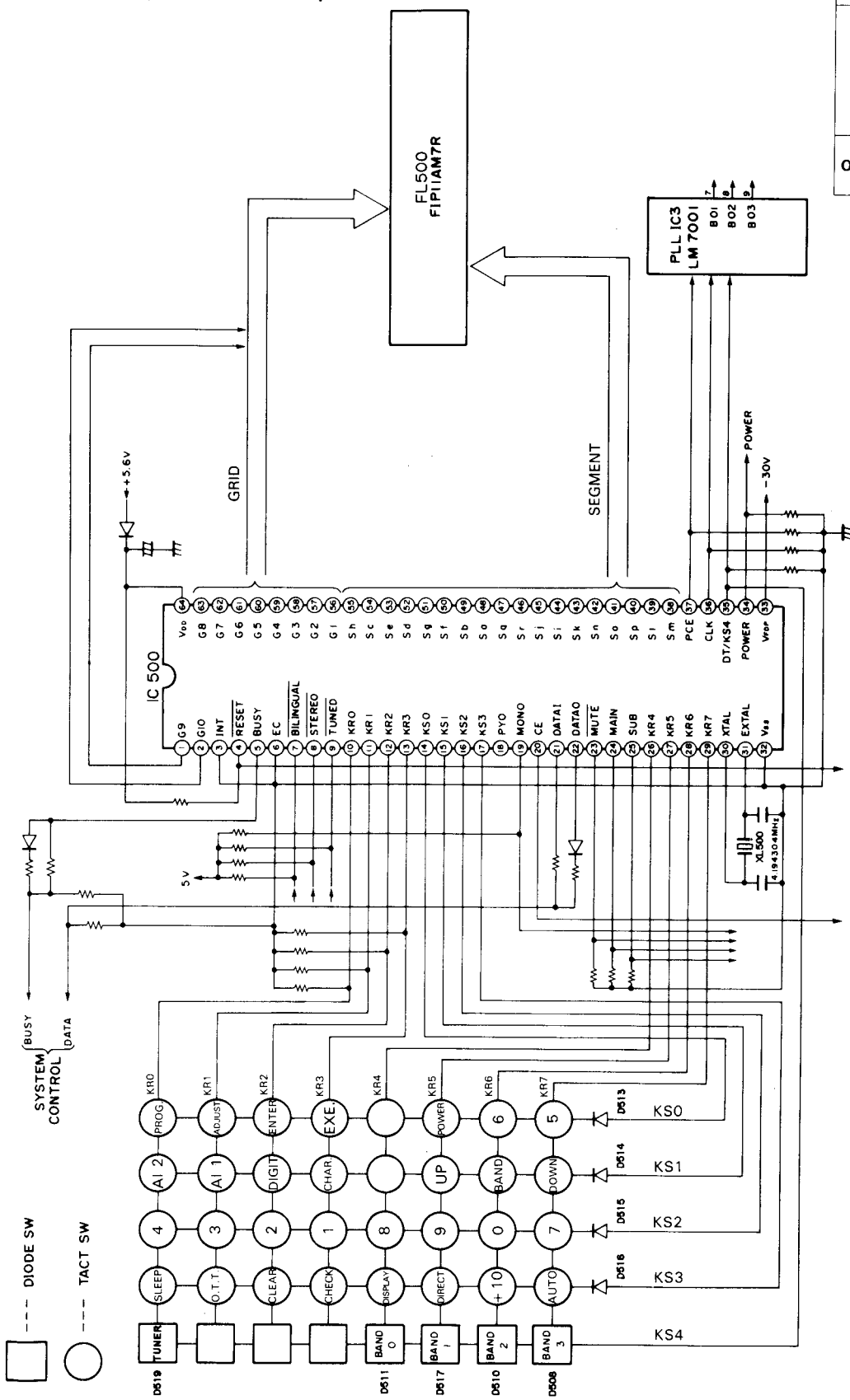


CIRCUIT DESCRIPTION

Block diagram of surrounding tuner microprocessor CXP50216-104S (FL PCB: IC500)

BAND SELECT

DESTINATION	BAND	7pin	8pin	9pin
J	FM	L	H	L
	AM	L	L	H
	VHF L	H	H	L
	VHF H	H	H	H
	UHF	H	L	L
Other	FM	H	H	L
	AM	H	L	H
	LW	L	H	H



CIRCUIT DESCRIPTION

Pin functions

Pin No.	Pin name	I/O	Name	Operation description	
1, 2	T1, T0	O	G9, G10	FL grid output	9G, 10G
3	INT	I		No use	(GND)
4	RST	I	$\overline{\text{RESET}}$	Reset input	H: NORMAL L: RESET
5	ADI/PB3	I/O	BUSY	System control BUSY input/output	
6	EC	I		No use	(GND)
7	SC/PX0	I	$\overline{\text{BIL}}$	BILINGUAL	H: NORMAL L: BILINGUAL
8	SO/PX1	I	$\overline{\text{STEREO}}$	Stereo signal input	H: MONO L: STEREO
9	SI/PX2	I	$\overline{\text{TUNED}}$	Tuning signal input	H: NO L: TUNED
10 ~ 13	PF0 ~ PF3	I	KR0 ~ KR3	Key return input	H: ON L: OFF
14 ~ 17	PE0 ~ PE3	O	KS0 ~ KS3	Key scan output	H: ON L: OFF
18	PY0	O		No use	(OPEN)
19	PWM/PY1	O	MONO	Forced MONO output	H: MONO L: STEREO
20	WP/PY2	I	CE	AC OFF detection input	H: AC ON L: AC OFF
21	RMC/PY3	I	DATAI	System control DATA input	
22	PD0	O	DATAO	System control DATA output	
23	PD1	O	$\overline{\text{MUTE}}$	Line mute	H: MUTE OFF L: MUTE ON
24	PD2	O	MAIN	No use	
25	PD3	O	SUB	No use	
26 ~ 29	PC0 ~ PC3	I	KR4 ~ KR7	Key return input	H: ON L: OFF
30	XTAL			Quartz oscillator 4.194304MHz	
31	EXTAL			Quartz oscillator 4.194304MHz	
32	V_{SS}			GND pin	
33	V_{FDP}			−30 V	
34	PH0/S0	O	POWER	POWER ON/OFF control	H: ON L: OFF
35	PH1/S1	O	DT/KS4	PLL DATA output	Key scan output for destination SW
36	PH2/S2	O	CLK	PLL CLOCK output	
37	PH3/S3	O	PCE	PLL CE output	
38 ~ 55	PG0/S4 ~ S23/T8	O	Sm ~ Sh	FL segment output (m, l, p, o, n, k, i, j, r, q, a, b, f, g, d, e, c, h)	
56 ~ 63	S22/T9 ~ T2	O	G1 ~ G8	FL grid output	1G ~ 8G
64	V_{DD}			+5 V (Power supply)	

CIRCUIT DESCRIPTION

Test mode

(1) Method of setting
While pressing the DOWN key, turn AC ON.

(2) Contents
Power ON
FLL all lit
Test frequency setting (Table 1)

(3) Method of canceling
Clearing the FL all lit state is performed by numeral key, BAND key, UP/DOWN key or POWER key.

Initial status setting (reset)

(1) Method
While pressing the ENTER key, turn AC ON.

(2) Contents
The all memory is cleared and the initial status is fully restored. At this time, however, test frequency is newly memorized in the preset memory. (Table 1)

Destination / Preset channel	T-47				T-47L	
	J TYPE		M, X TYPE		T, E TYPE	
01ch	FM	83.5 MHz	FM	98.0 MHz	FM	98.0 MHz
02ch	FM	90.0 MHz	FM	108.0 MHz	FM	108.0 MHz
03ch	AM	630 kHz	AM	630 kHz	AM	630 kHz
04ch	AM	990 kHz	AM	990 kHz	AM	990 kHz
05ch	AM	1440 kHz	AM	1440 kHz	AM	1440 kHz
06ch	AM	1602 kHz	AM (AM	1602 kHz 1610 kHz)	AM	1602 kHz
07ch	TV	3 ch	FM	87.5 MHz	LW	162 kHz
08ch	TV	8 ch	FM	87.5 MHz	LW	216 kHz
09ch	TV	35 ch	FM	87.5 MHz	LW	270 kHz
10ch	FM	89.1 MHz	FM	89.1 MHz	FM	89.1 MHz
11ch	TV	1 ch	FM	87.5 MHz	LW	281 kHz
12ch	TV	3 ch	FM	87.5 MHz	FM	87.5 MHz
13ch	TV	4 ch	FM	87.5 MHz	FM	87.5 MHz
14ch	TV	8 ch	FM	87.5 MHz	FM	87.5 MHz
15ch	TV	12 ch	FM	87.5 MHz	FM	87.5 MHz
16ch	TV	13 ch	FM	87.5 MHz	FM	87.5 MHz
17ch	TV	35 ch	FM	87.5 MHz	FM	87.5 MHz
18ch	TV	62 ch	FM	87.5 MHz	FM	87.5 MHz
19ch	FM	76.0 MHz	FM	87.5 MHz	FM	87.5 MHz
20ch ~ 30ch	FM	76.0 MHz	FM	87.5 MHz	FM	87.5 MHz

(Table 1)

Conditions by destination

	Destination type	B3	B2	B1	B0	Band	Receiving frequency range	Inter-channel space	Intermediate frequency	PLL reference frequency
T-47	J	0	0	0	0	FM	76.0 ~ 90.0 MHz	100 kHz	− 10.75 MHz	25 kHz
						AM	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
						TV	1 ~ 62ch	6 MHz	− 10.75 MHz	25 kHz
	M	1	1 or 0	1	0	FM	87.5 ~ 108.0 MHz	100 kHz or 50 kHz	+ 10.7 MHz	50 kHz
						AM	531 ~ 1602 kHz or 530 ~ 1610 kHz	9 kHz or 10 kHz	+ 450 kHz	10 kHz
	K,P	1	0	0	0	FM	87.5 ~ 108.0 MHz	100 kHz	+ 10.7 MHz	50 kHz
						AM	530 ~ 1700 kHz	10 kHz	+ 450 kHz	10 kHz
	X	1	1	0	0	FM	87.5 ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz
						AM	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
T-47L	T,E	1	1	0	1	FM	87.5 ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz
						MW	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
						LW	153 ~ 281 kHz	1 kHz	+ 450 kHz	1 kHz

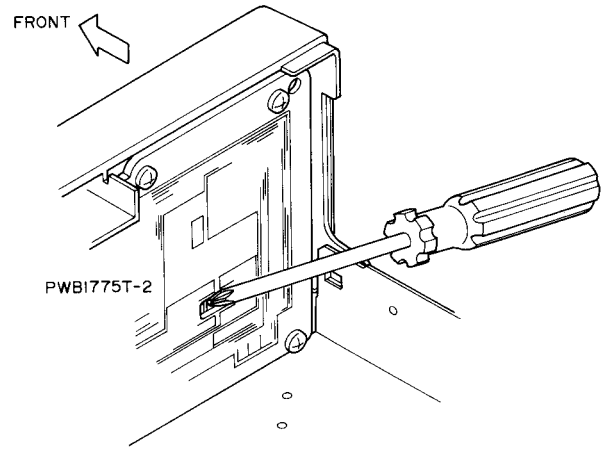
ADJUSTMENT/REGLAGE/ABGLEICH

English

(1) To connect T-47 and the power supply (RM-90PS) or A-47, please use the 15-pin connector cord(Part No. E30-2668-05).

(2) When operating T-47 only, apply AC 16 V to the jumper wire between pin 14 and pin 15 of the 15-pin connector (BLUE).
When turning the power on, short the jumper wire of the POWER ON POINT (nearby the "ADJUST" key of FL PCB).

(3) Connect the output to CP3 1P(L), 3P(R) or resistors R41(L), R42(R).

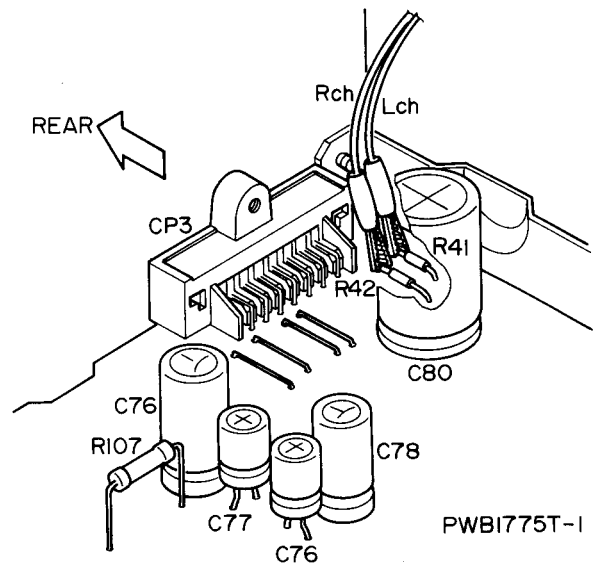


French

(1) Pour raccorder le T-47 et la source d'alimentation (RM-90PS) ou A-47, utiliser le connecteur à 15 broches (Pièce No. E30-2668-05).

(2) Lors de l'utilisation du T-47 uniquement, appliquer un courant CA 16 V au cavalier entre la broche 14 et 15 du connecteur à 15 broches (BLEU).
A la mise sous tension, court-circuiter le cavalier du POINT DE MISE SOUS TENSION (près de la touche "ADJUST" de FL PCB).

(3) Quand la sortie est CP3 1P(L), 3P(R) ou connecter au rhéostat R41(L), R42(R).

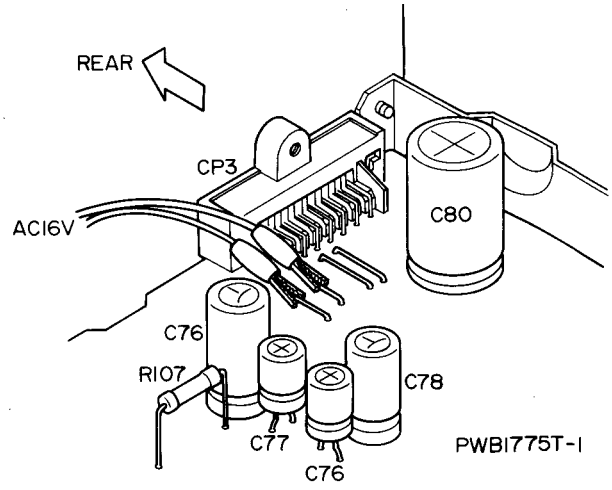


Germany

(1) Zum Anschließen des T-47 und der Btriebsstromversorgung (RM-90PS) oder A-47 bitte den 15poligen Stecker (Teil Nr. E30-2668-05) verwenden.

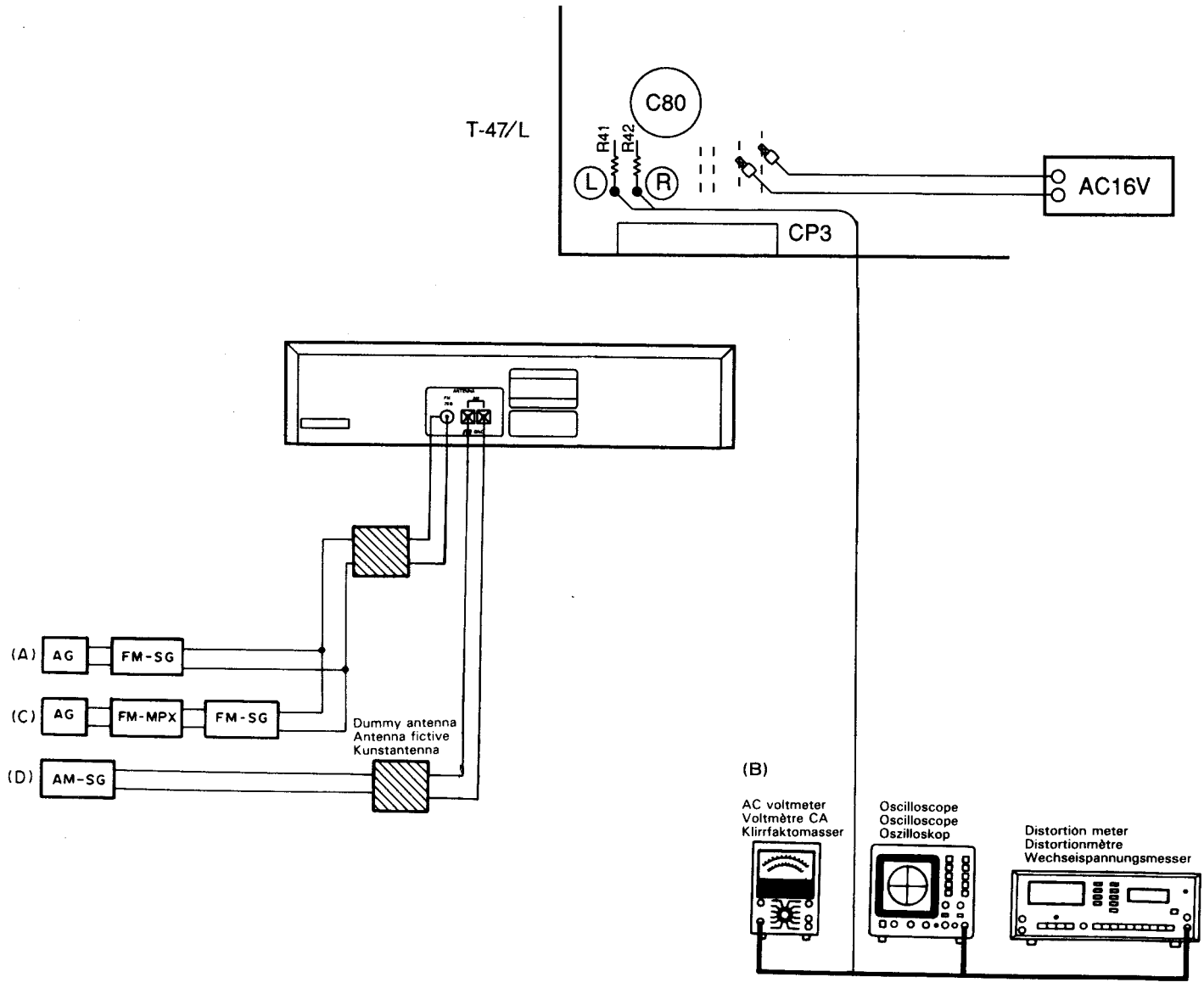
(2) Wenn nur T-47 betrieben wird, 16 V Wechselstrom an den Jumperdrant zwischen Pin 14 und Pin 15 des 15poligen Steckers (BLAU) anlegen.
Beim Einschalten den Jumperdraht des EINSCHALTPUNKTS (in der Nähe der "ADJUST" Taste der FL-Leiterplatte) kurzschließen.

(3) Wenn der Ausgang CP3 1P(L), 3P(R) an den Widerstand (R41 (L), R42 (R)) anschließen.

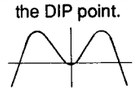


T-47/L

ADJUSTMENT/REGLAGE/ABGLEICH



ADJUSTMENT

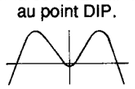
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION	**Unless otherwise specified, the individual switches should be set as following: BAND: FM MODE: FM MODE/AUTO**						
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev 60dBμ(ANT input)	Connect a DC voltmeter between terminal of TP1	MONO 98.0MHz	T1	0±30mV	(b)
2	TUNING LEVEL	(A) 98.0MHz 0 dev 24dBμ(ANT input)	—	98.0MHz	VR2	Adjust VR2 so that FL500(TUNED) goes off. Then, adjust VR1 and stop at the point where FL500 (TUNED) goes on.	
3	FM BAND WIDTH	(A) 98.025MHz 97.975MHz 0 dev 60dBμ(ANT input)	—	98 MHz	VR1	FMSG 98.025MHz±3kHz FMSG 97.975MHz±3kHz where FL500 (TUNED) goes on.	
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R 60dBμ(ANT input)	(B)	98.0MHz	L7 (Front end)	Minimum distortion. (L or R)	
5	SEPARATION	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R 60dBμ(ANT input)	(B)	98.0MHz	VR3	Minimum crosstalk.	
AM SECTION	**Keep the AM loop antnna installed. BAND: AM(T-47)**						
(1)	RF ALIGNMENT (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	YEL COIL of T4 L3	Maximum amplitude and symmetry of the oscilloscope display.	
(2)	RF ALIGNMENT (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	—	Maximum amplitude and symmetry of the oscilloscope display.	
(3)	IF	(D) 990kHz 4kHz, 30% mod	(B)	990kHz	T2	Adjust the 4kHz audio output to the DIP point. 	

T-47/L

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
AM-MW SECTION	**Keep the AM loop antenna installed. BAND:MW (T-47L)**						
(1)	BAND EDGE (1)	—	Connect a DC voltmeter between R65 marking and GND.	531 kHz	T8	1.1V±0.1V	(a)
(2)	BAND EDGE (2)	—	Connect a DC voltmeter between R65 marking and GND.	1602 kHz	—	Confirm 7.4V $^{+1.0}_{-0.6}$ V	(a)
	Repeat alignements (1) and (2) several times.						
(3)	RF ALIGNMENT (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	T6	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	TO2	Maximum amplitude and symmetry of the oscilloscope display.	
(5)	IF	(D) 990kHz 4kHz, 30% mod	(B)	990kHz	T2	Adjust the 4kHz audio output to the DIP point. 	
	Repeat alignements (3) and (4) several times.						
AM-LW SECTION	**Keep the AM loop antenna installed. BAND:LW (T-47L)**						
(6)	BAND EDGE (1)	—	Connect a DC voltmeter between R65 marking and GND.	153 kHz	T7	1.5V±0.1V	(a)
(7)	BAND EDGE (2)	—	—	281 kHz	—	Confirm 5.5V±0.5V	(a)
	Repeat alignements (6) and (7) several times.						
(8)	RF ALIGNMENT (1)	(D) 162kHz 400Hz, 30% mod	(B)	162kHz	T5	Maximum amplitude and symmetry of the oscilloscope display.	
(9)	RF ALIGNMENT (2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	TO1	Maximum amplitude and symmetry of the oscilloscope display.	
	Repeat alignements (8) and (9) several times.						

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF	**A moins, de spécification contraire, régler les commutateurs respectifs comme suit: BANDE: FM MODE: FM MODE/AUTO**						
1	DETECTEUR	(A) 98,0MHz 1kHz, ±75kHz dév 60dBμ(Entrée ANT)	Relier un voltmètre CC entre les broches où TP1	MONO 98,0MHz	T1	0±30mV	(b)
2	NIVEAU D'ACCORDER	(A) 98,0MHz 0 dév 24dBμ(Entrée ANT)	—	98,0MHz	VR2	Régler VR2 pour que FL500 (TUNED) disparaisse. Ensuite, régler VR1 et s'arrêter au point où FL500 (TUNED) apparaît.	
3	LARGEUR DE BANDE MF	(A) 98,025MHz 97,975MHz 0 dév 60dBμ(Entrée ANT)	—	98 MHz	VR1	FMSG 98,025MHz±3kHz FMSG 97,975MHz±3kHz au moment où le FL500 (TUNED) s'allume.	
4	DISTORSION (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz dév Selecteur: L ou R 60dBμ(Entrée ANT)	(B)	98,0MHz	L7 (Front end)	Distorsion minimale. (L ou R)	
5	SEPARATION	(C) 98,0MHz 1kHz, ±68,25kHz dév Selecteur: L ou R 60dBμ(Entrée ANT)	(B)	98,0MHz	VR3	Diaphone minimale.	
SECTION MA	**Laisser l'antenne bouche MA installée. BANDE: AM(T-47)**						
(1)	ALIGNEMENT RF (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	Bobine YEL de T4. L3	Amplitude et symétrie maximum de l'affichage de l'oscilloscope.	
(2)	ALIGNEMENT RF (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	—	Amplitude et symétrie maximum de l'affichage de l'oscilloscope.	
(3)	IF	(D) 990kHz 4kHz, 30% mod	(B)	990kHz	T2	Régler la sortie audio 4 kHz au point DIP. 	

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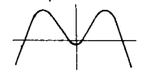
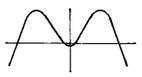
REGLAGE

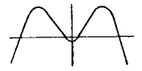
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MA-MW	**Laisser l'antenne bouche MA installée. BANDE:MW (T-47L)**						
(1)	LIMITE DE BANDE (1)	—	Relier un voltmètre CC entre les R65 marque et GND.	531 kHz	T8	1,1V±0,1V	(a)
(2)	LIMITE DE BANDE (2)	—	Relier un voltmètre CC entre les R65 marque et GND.	1602 kHz	—	Confirmer 7,4V $^{+1,0}_{-0,6}$ V	(a)
	Reprendre deux ou trois fois les opérations (1) et (2) précédentes.						
(3)	ALIGNEMENT RF (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	T6	Amplitude et symétrie maximum de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT RF (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	TO2	Amplitude et symétrie maximum de l'affichage de l'oscilloscope.	
(5)	IF	(D) 990kHz 4kHz, 30% mod	(B)	990kHz	T2	Régler la sortie audio 4 kHz au point DIP. 	
	Reprendre deux ou trois fois les opérations (3) et (4) précédentes.						
SECTION MA-LW	**Laisser l'antenne bouche MA installée. BANDE:LW (T-47L)**						
(6)	LIMITE DE BANDE (1)	—	Relier un voltmètre CC entre les R65 marque et GND.	153 kHz	T7	1,5V±0,1V	(a)
(7)	LIMITE DE BANDE (2)	—	—	281 kHz	—	Confirmer 5,5V±0,5V	(a)
	Reprendre deux ou trois fois les opérations (6) et (7) précédentes.						
(8)	ALIGNEMENT RF (1)	(D) 162kHz 400Hz, 30% mod	(B)	162kHz	T5	Amplitude et symétrie maximum de l'affichage de l'oscilloscope.	
(9)	ALIGNEMENT RF (2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	TO1	Amplitude et symétrie maximum de l'affichage de l'oscilloscope.	
	Reprendre deux ou trois fois les opérations (8) et (9) précédentes.						

ABGLEICH

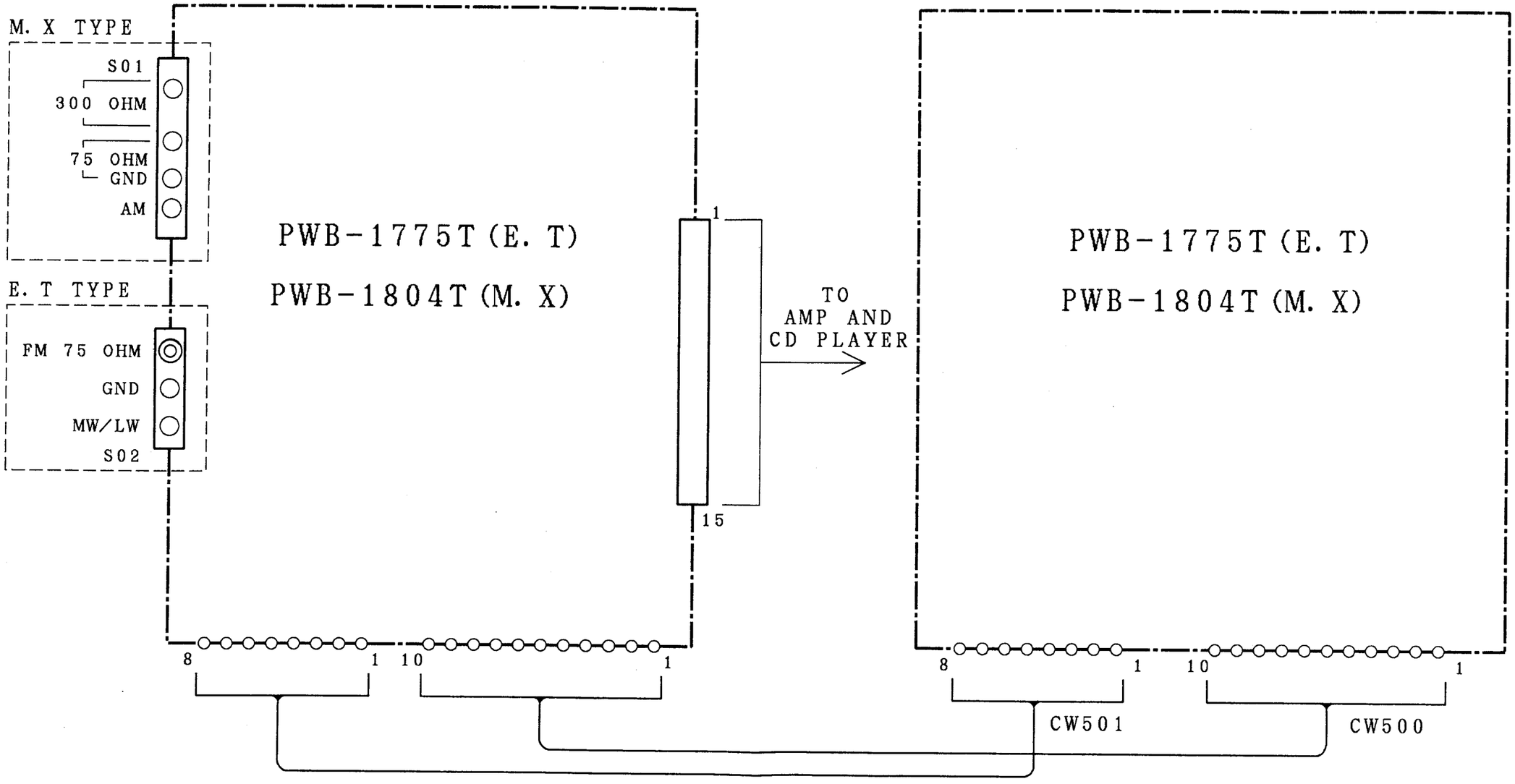
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FUR	ABB.
UKW-EMPFANGSABTEILUNG		**Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: BAND: FM MODE: FM MODE/AUTO**					
1	DETEKTOR	(A) 98,0MHz 1kHz, ±75kHz Hub 60dBμ(ANT-Eingang)	Einen Gleichspannungs-messer zwischen TP1	MONO 98,0MHz	T1	0±30mV	(b)
2	ABSTIMM PEGEL	(A) 98,0MHz 0 Hub 24dBμ(ANT-Eingang)	—	98,0MHz	VR2	VR2 so einstellen, daß FL500 (TUNED) erlischt. Dann VR1 und Sptze an der Stelle einstellen, wo FL500 (TUNED) erlischt.	
3	FM-BANDBREITE	(A) 98,025MHz 97,975MHz 0 Hub 60dBμ(ANT-Eingang)	—	98 MHz	VR1	FMSG 98,025MHz±3kHz FMSG 97,975MHz±3kHz wobei den FL500 (TUNED) anzeiger leuchtet wird.	
4	KLIRRFAKTOR (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz Hub Wähler: L oder R 60dBμ(ANT-Eingang)	(B)	98,0MHz	L7 (Front end)	Minimal Klirrfaktor. (L oder R)	
5	TRENNUNG	(C) 98,0MHz 1kHz, ±68,25kHz Hub Wähler: L oder R 60dBμ(ANT-Eingang)	(B)	98,0MHz	VR3	Optimale Trennung.	
MW-EMPFANGSABTEILUNG		**Die MW-Rahmenantenne angebracht lassen. BAND: AM(T-47)**					
(1)	RF-ANGLEICH (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	YEL SPULE von T4 L3	Maximale Amplitude und Symmetrie der Oszilloskop-Anzeige.	
(2)	RF-ANGLEICH (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	—	Maximale Amplitude und Symmetrie der Oszilloskop-Anzeige.	
(3)	IF	(D) 990kHz 4kHz, 30% mod	(B)	990kHz	T2	Den 4 kHz Audioausgang am Punkt DIP einstellen. 	

T-47/L

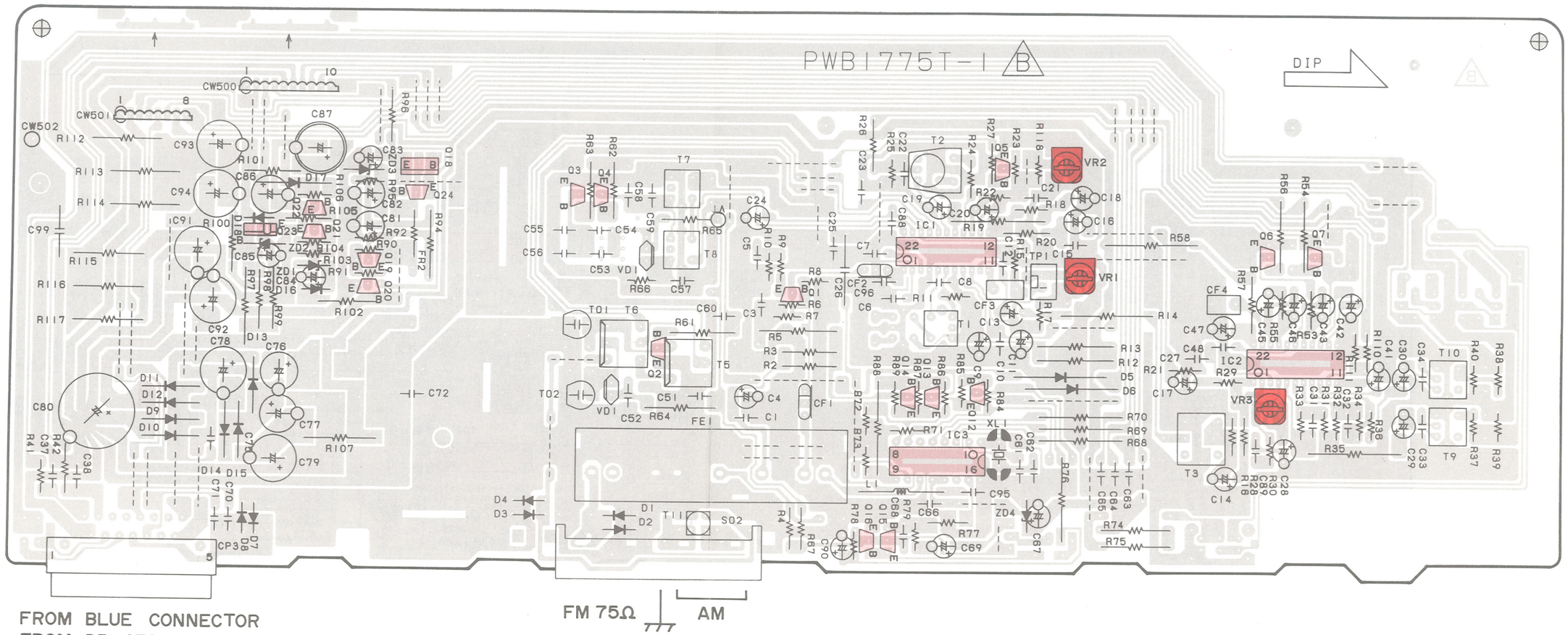
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FUR	ABB.
MW-EMPFANGSABTEILUNG(MW)		**Die MW-Rahmenantenne angebracht lassen. BAND:MW (T-47L)**					
(1)	BANDKANTE (1)	—	Einen Gleichspannungs-messer zwischen R65 und GND anschließen.	531 kHz	T8	1,1V±0,1V	(a)
(2)	BANDKANTE (2)	—	Einen Gleichspannungs-messer zwischen R65 und GND anschließen.	1602 kHz	—	7,4V $^{+1,0}_{-0,6}$ V prüfen.	(a)
Obigen Schritte (1) und (2) zwei bis dreimal wiederholen.							
(3)	RF-ANGLEICH (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	T6	Maximale Amplitude und Symmetrie der Oszilloskop-Anzeige.	
(4)	RF-ANGLEICH (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	TO2	Maximale Amplitude und Symmetrie der Oszilloskop-Anzeige.	
(5)	IF	(D) 990kHz 4kHz, 30% mod	(B)	990kHz	T2	Den 4 kHz Audioausgang am Punkt DIP einstellen. 	
Obigen Schritte (3) und (4) zwei bis dreimal wiederholen.							
MW-EMPFANGSABTEILUNG(LW)		**Die MW-Rahmenantenne angebracht lassen. BAND:LW (T-47L)**					
(6)	BANDKANTE (1)	—	Einen Gleichspannungs-messer zwischen R65 und GND anschließen.	153 kHz	T7	1,5V±0,1V	(a)
(7)	BANDKANTE (2)	—	—	281 kHz	—	5,5V±0,5V prüfen.	(a)
Obigen Schritte (6) und (7) zwei bis dreimal wiederholen.							
(8)	RF-ANGLEICH (1)	(D) 162kHz 400Hz, 30% mod	(B)	162kHz	T5	Maximale Amplitude und Symmetrie der Oszilloskop-Anzeige.	
(9)	RF-ANGLEICH (2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	TO1	Maximale Amplitude und Symmetrie der Oszilloskop-Anzeige.	
Obigen Schritte (8) und (9) zwei bis dreimal wiederholen.							

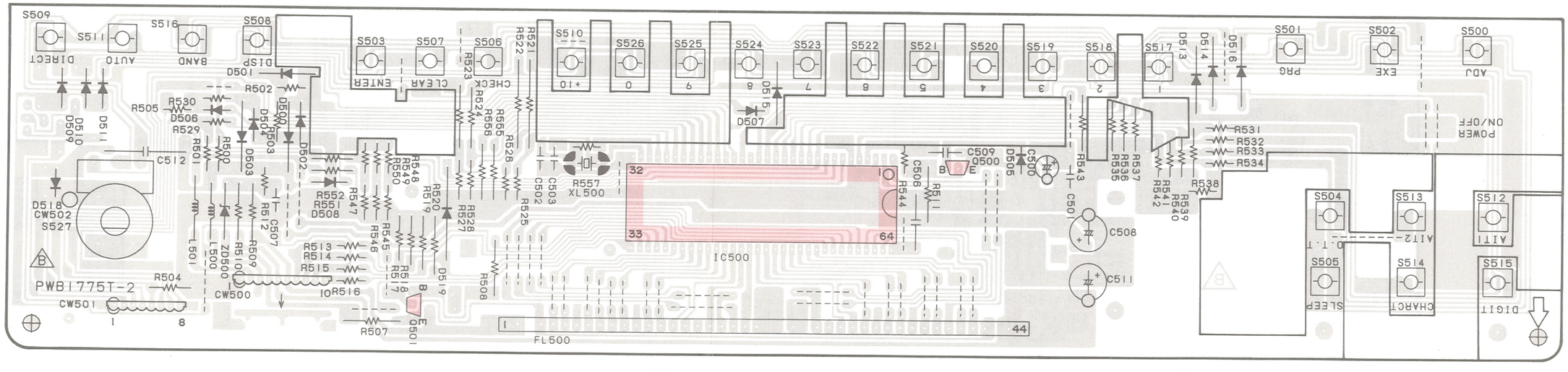
WIRING DIAGRAM



PC BOARD (Component side view) (E, T type)

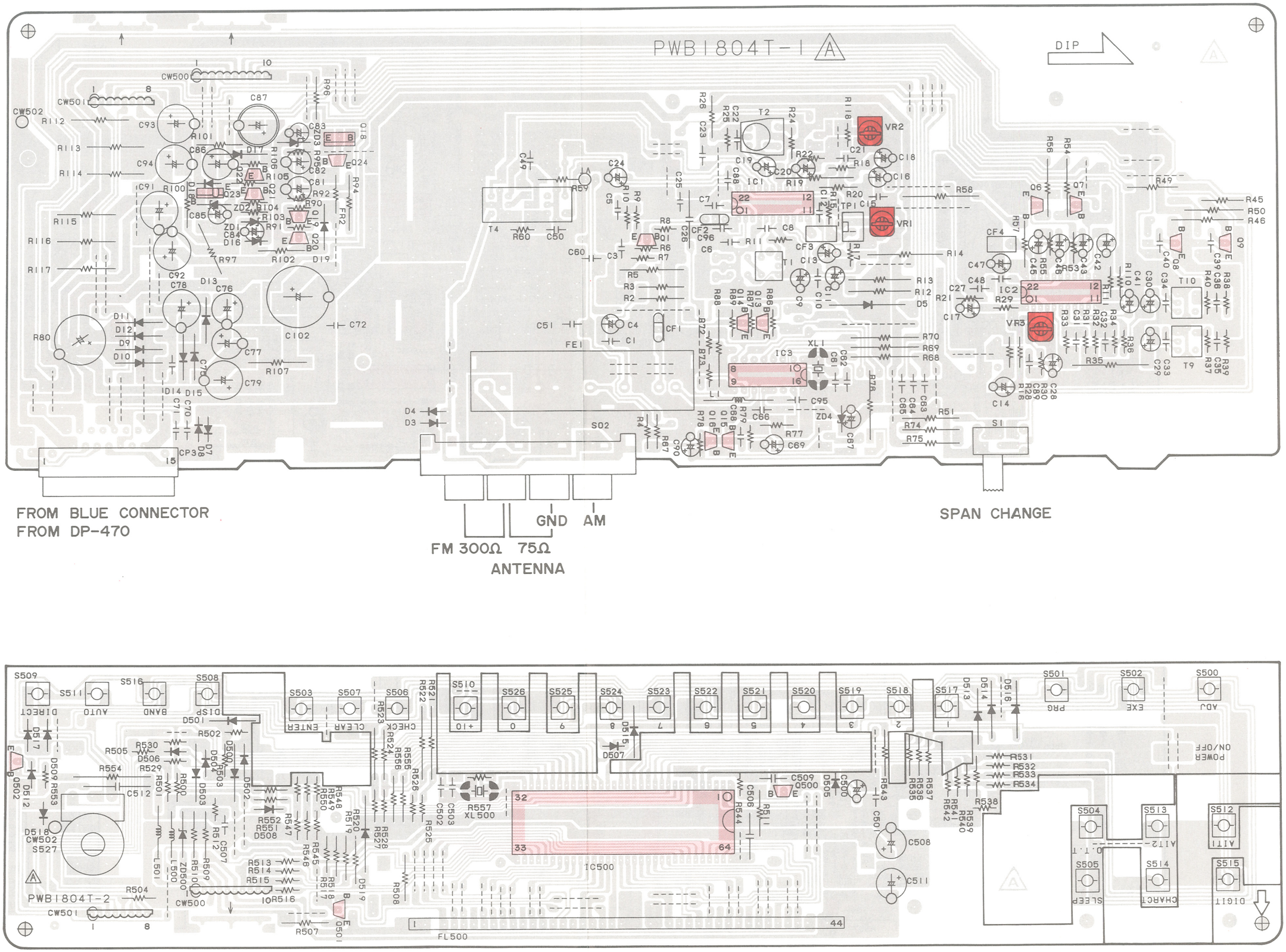


FRONT



Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view) (M, X type)



Refer to the schematic diagram for the values of resistors and capacitors.

(T-47:PWB1804T-1) (T-47L:PWB1775T-1)

COUNTRY	ABB	REF, NO / UNIT NAME	A	B
EUROPE	E	PWB-1775T	YES	NO
ENGLAND	T	PWB-1775T	YES	NO
OTHER AREAS	M	PWB-1804T	NO	YES
AUSTRALIAS	X	PWB-1804T	NO	YES

COUNTRY	ABB	REF, NO / UNIT NAME	R21	R2
EUROPE	E	PWB-1775T	2.2K	5.6
ENGLAND	T	PWB-1775T	2.2K	5.6
OTHER AREAS	M	PWB-1804T	8.2K	2.7
AUSTRALIAS	X	PWB-1804T	8.2K	2.7

IC1	:LA1265S	Q5, 6	:DTC144ES	D1~8, 16~18	:1SS133
IC2	:LA3401	Q7	:DTA144WS	D9~15. 19	:RL104T
IC3	:LM7001	Q12~14, 19	:2SA933SR	VD1	:KV1236Z23
		Q18	:2SD2012		
Q1	:2SC380	Q20	:DTC114ES		
Q2~4, 8, 9, 15, 16, 21, 24	:2SC1740SR	Q22	:DTC114YS		
		Q23	:2SD1858R3		

(T-47:PWB1804T-2)(T-47L:PWB1775T-2)

COUNTRY	ABB	REF, NO / UNIT NAME	A	B	C	FE1	CF1 CF2	C31 C32	C69	C89
EUROPE	E	PWB-1775T	YES	NO	YES	TUNER 1175A	L72-0579-08	220P	2.2μ50	220P
ENGLAND	T	PWB-1775T	YES	NO	NO	TUNER 1175A	L72-0579-08	220P	2.2μ50	220P
OTHER AREAS	M	PWB-1804T	NO	YES	NO	TUNER 1804A	L72-0580-08	39P	4.7μ50	68P
AUSTRALIAS	X	PWB-1804T	NO	YES	NO	TUNER 1804A	L72-0580-08	39P	4.7μ50	68P

COUNTRY	ABB	REF, NO / UNIT NAME	R21	R22	R30	R33 R34	R79	R97	R98	R99	VR3
EUROPE	E	PWB-1775T	2.2K	5.6K	2.7K	220K	1K	1K	100 (1/4)	100 (1/4)	47K
ENGLAND	T	PWB-1775T	2.2K	5.6K	2.7K	220K	1K	1K	100 (1/4)	100 (1/4)	47K
OTHER AREAS	M	PWB-1804T	8.2K	2.7K	10K	82K	470	470	NO	NO	220K
AUSTRALIAS	X	PWB-1804T	8.2K	2.7K	10K	82K	470	470	NO	NO	220K

IC1	:LA1265S	Q5, 6	:DTC144ES	D1~8, 16~18	:1SS133
IC2	:LA3401	Q7	:DTA144WS	D9~15. 19	:RL104T
IC3	:LM7001	Q12~14, 19	:2SA933SR		
		Q18	:2SD2012	VD1	:KV1236Z23F
Q1	:2SC380	Q20	:DTC114ES		
Q2~4, 8, 9, 15, 16, 21, 24	:2SC1740SR	Q22	:DTC114YS		
		Q23	:2SD1858R3		

ZD1	:MTZJ12BT
ZD2	:MTZJ6R2C
ZD3	:MTZJ16A
ZD4	:MTZJ5. 1A

COUNTRY	ABB	REF. NO / UNIT NAME	Q502	D509, 512, 517	D510, 511	R553, 554
EUROPE	E	PWB-1775T	NO	NO	YES	NO
ENGLAND	T	PWB-1775T	NO	NO	YES	NO
OTHER AREAS	M	PWB-1804T	YES	YES	NO	YES
AUSTRALIAS	X	PWB-1804T	YES	YES	NO	YES

DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

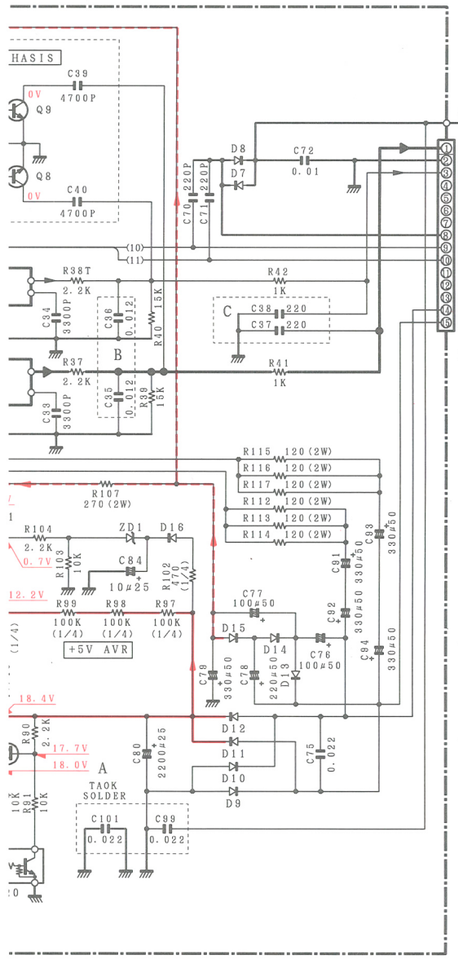
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programmme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de measure individuels.
Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de 60 dB à la borne ANT).

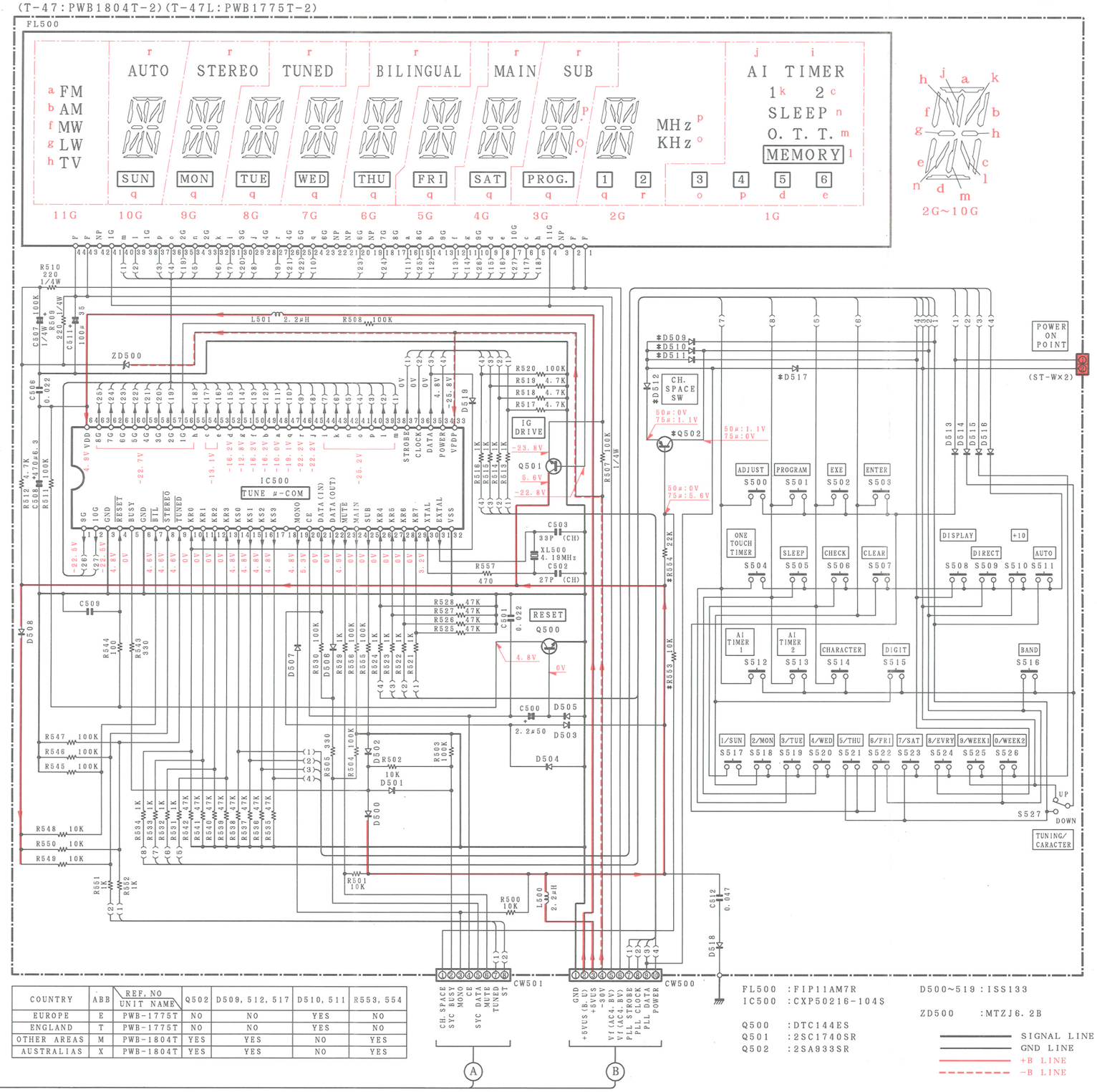
Die angegebenen Gleichspannungswerte wurden m
chohmigen Spannungsmesser bei Empfang eines U
(mit einer Feldstäke von 60 dB am Antennenanschluß
Dabei schwanken die Meßwerte aufgrund von Unterscl
chen einzelnen Instrumenten oder Geräten u. U. geri
eingeklammerten Gleichspannungswerte wurden b
eines MW-Signals (mit einer Feldstäke von 60 dB am A
schluß) gemessen.

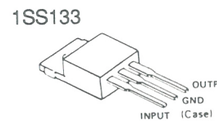
	B	C	FE1	CF1 CF2	C31 C32	C69	C89
S	NO	YES	TUNER 1175A	L72-0579-08	220P	2.2μ50	220P
S	NO	NO	TUNER 1175A	L72-0579-08	220P	2.2μ50	220P
	YES	NO	TUNER 1804A	L72-0580-08	39P	4.7μ50	68P
	YES	NO	TUNER 1804A	L72-0580-08	39P	4.7μ50	68P

1	R22	R30	R33 R34	R79	R97	R98	R99	VR3
2K	5.6K	2.7K	220K	1K	1K	100 (1/4)	100 (1/4)	47K
2K	5.6K	2.7K	220K	1K	1K	100 (1/4)	100 (1/4)	47K
2K	2.7K	10K	82K	470	470	NO	NO	220K
2K	2.7K	10K	82K	470	470	NO	NO	220K

(T-47:PWB1804T-2)(T-47L:PWB1775T-2)

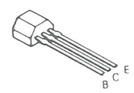




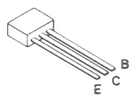


1SS133

DTC114ES
DTC144ES

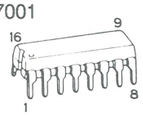


DTC114YS

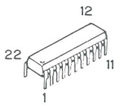


2SD2012

LM7001



LA3401



33	ZD1	:MTZJ12BT
4T	ZD2	:MTZJ6R2C
	ZD3	:MTZJ16A
36Z23F	ZD4	:MTZJ5.1A

COUNTRY	ABB	REF, NO / UNIT NAME	Q502	D509, 512, 517	D510, 511	R553, 554
EUROPE	E	PWB-1775T	NO	NO	YES	NO
ENGLAND	T	PWB-1775T	NO	NO	YES	NO
OTHER AREAS	M	PWB-1804T	YES	YES	NO	YES
AUSTRALIAS	X	PWB-1804T	YES	YES	NO	YES

FL500 :FIP11AM7R
IC500 :CXP50216-104S

Q500 :DTC144ES
Q501 :2SC1740SR
Q502 :2SA933SR

D500~519 :ISS133

ZD500 :MTZJ6.2B

SIGNAL LINE
GND LINE
+B LINE
−B LINE

DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programmme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de measure individuels.
Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen.

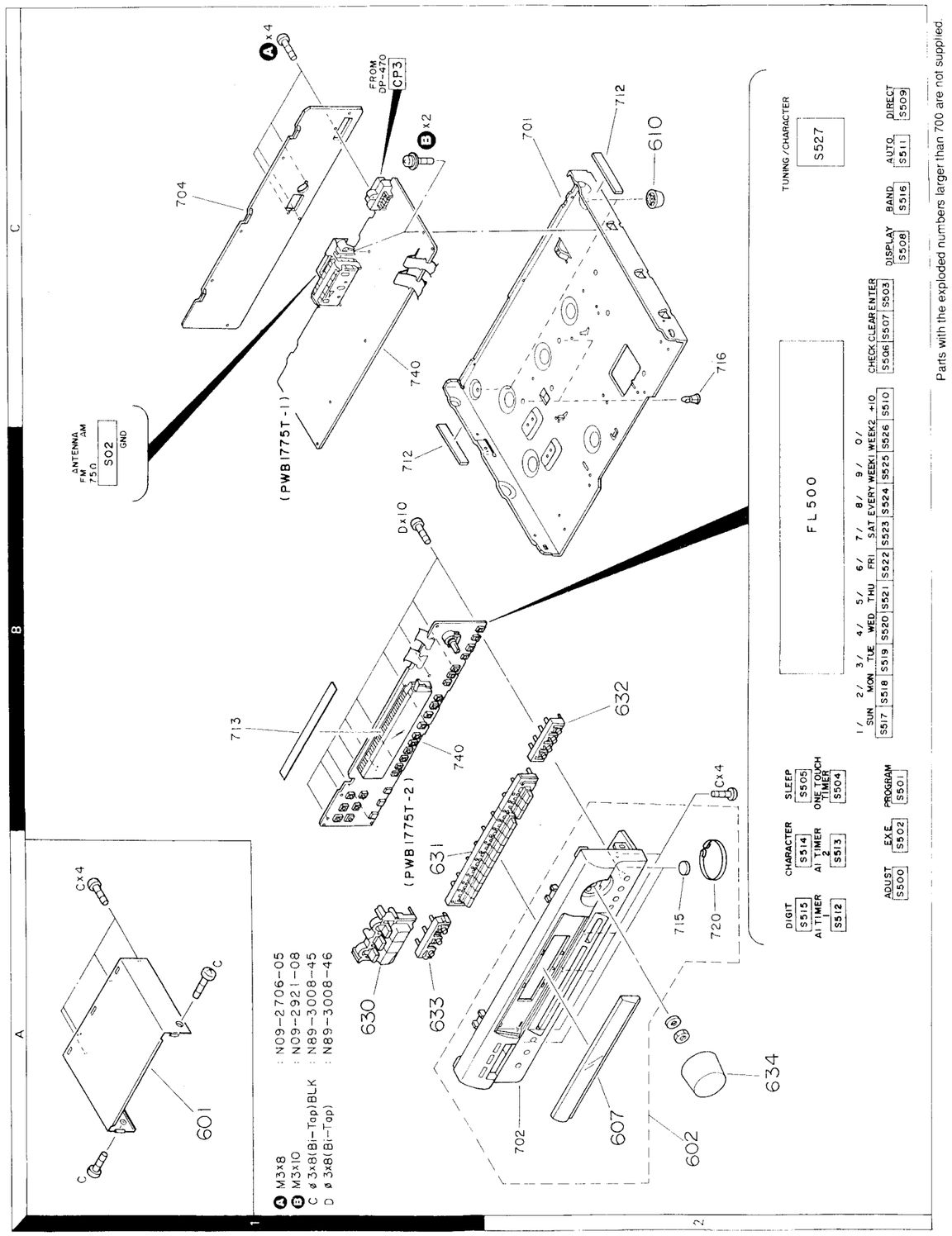
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y07-3652-70

T-47/L

KENWOOD

EXPLODED VIEW



PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
T-47/L (UNIT)						
601	1A	*	A01-3125-08	METALIC CABINET		
602	2A	*	A60-0556-08	PANEL ASSY	ET	
602	2A	*	A60-0557-08	PANEL ASSY	XMI	
607	2A	*	SH1101580791	FRONT GLASS		
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	ET	
		*	H50-0831-08	ITEM CARTON CASE	ET	
		*	H50-0832-08	ITEM CARTON CASE	MI	
		*	H50-1014-08	ITEM CARTON CASE	X	
-		*	H10-5732-08	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-5733-08	POLYSTYRENE FOAMED FIXTURE R		
-		*	H12-2186-08	PACKING FIXTURE		
-		*	H25-1513-08	PROTECTION BAG		
610	2C	*	SH1101230060	FOOT REAR		
630	1A	*	K29-5889-08	KNOB TIMER		
631	1A	*	K29-5890-08	KNOB 10 KEY		
632	2B	*	K29-5891-08	KNOB BAND		
633	1A	*	K29-5892-08	KNOB PROGRAM		
634	2A	*	K29-5893-08	KNOB TUNING		
A	1C		N09-2706-05	TAPTITE SCREW (3X8)		
B	1C		N09-2921-08	SCREW (3X10)		
C	1A, 2B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
D	1B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
ELECTRICAL UNIT						
C1			CK45FF1H223Z	CERAMIC	0.022UF Z	
C3			CK45FF1H223Z	CERAMIC	0.022UF Z	
C4			CE04KW1C470M	ELECTRO	47UF 16WV	
C5			CK45FF1H103Z	CERAMIC	0.010UF Z	
C6 -8			CK45FF1H223Z	CERAMIC	0.022UF Z	
C9			CE04KW1C470M	ELECTRO	47UF 16WV	
C10			CK45FF1H223Z	CERAMIC	0.022UF Z	
C11			CE04KW1HR47M	ELECTRO	0.47UF 50WV	
C12			CC45FSL1H101J	CERAMIC	100PF J	
C13 ,14			CE04KW1C100M	ELECTRO	10UF 16WV	
C15			SH1125900145	CERAMIC	2200PF K	
C16			CE04KW1HR22M	ELECTRO	0.22UF 50WV	XMI
C16			CE04KW1HR33M	ELECTRO	0.33UF 50WV	ET
C17			CE04KW1H010M	ELECTRO	1.0UF 50WV	
C18			CE04KW1H3R3M	ELECTRO	3.3UF 50WV	
C19			CE04KW1H2R2M	ELECTRO	2.2UF 50WV	
C20			CE04KW1E4R7M	ELECTRO	4.7UF 25WV	
C21 -23			CK45FF1H223Z	CERAMIC	0.022UF Z	
C24			CE04KW1C100M	ELECTRO	10UF 16WV	
C25			CC45SL1H220J	CERAMIC	22PF J	
C26		*	SH1015900044	CERAMIC	0.01UF J	
C27			CK45FB1E102K	CERAMIC	1000PF K	
C28 -30			CE04KW1C100M	ELECTRO	10UF 16WV	
C31 ,32			CC45FSL1H221J	CERAMIC	220PF J	ET
C31 ,32			CC45SL1H390J	CERAMIC	39PF J	XMI
C33 ,34		*	SH1125900164	CERAMIC	3300PF J	
C35 ,36			SH1125900162	CERAMIC	0.012UF J	XMI

L:Scandinavia **K:**USA **P:**Canada
Y:PX(Far East, Hawaii) **T:**England **E:**Europe
Y:AAFES(Europe) **X:**Australia **M:**Other Areas

⚠ indicates safety critical components.

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601	1A	*	A01-3125-08	METALIC CABINET		
602	2A	*	A60-0556-08	PANEL ASSY	ET	
602	2A	*	A60-0557-08	PANEL ASSY	XMI	
607	2A	*	SH1101580791	FRONT GLASS		
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	ET	
		*	H50-0831-08	ITEM CARTON CASE	ET	
		*	H50-0832-08	ITEM CARTON CASE	MI	
		*	H50-1014-08	ITEM CARTON CASE	X	
-		*	H10-5732-08	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-5733-08	POLYSTYRENE FOAMED FIXTURE R		
-		*	H12-2186-08	PACKING FIXTURE		
-		*	H25-1513-08	PROTECTION BAG		
610	2C	*	SH1101230060	FOOT REAR		
630	1A	*	K29-5889-08	KNOB TIMER		
631	1A	*	K29-5890-08	KNOB 10 KEY		
632	2B	*	K29-5891-08	KNOB BAND		
633	1A	*	K29-5892-08	KNOB PROGRAM		
634	2A	*	K29-5893-08	KNOB TUNING		
A	1C		N09-2706-05	TAPTITE SCREW (3X8)		
B	1C		N09-2921-08	SCREW (3X10)		
C	1A,2B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
D	1B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
ELECTRICAL UNIT						
C1			CK45FF1H223Z	CERAMIC 0.022UF Z		
C3			CK45FF1H223Z	CERAMIC 0.022UF Z		
C4			CE04KW1C470M	ELECTRO 47UF 16WV		
C5			CK45FF1H103Z	CERAMIC 0.010UF Z		
C6 -8			CK45FF1H223Z	CERAMIC 0.022UF Z		
C9			CE04KW1C470M	ELECTRO 47UF 16WV		
C10			CK45FF1H223Z	CERAMIC 0.022UF Z		
C11			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C12			CC45FSL1H101J	CERAMIC 100PF J		
C13 ,14			CE04KW1C100M	ELECTRO 10UF 16WV		
C15			SH1125900145	CERAMIC 2200PF K		
C16			CE04KW1HR22M	ELECTRO 0.22UF 50WV	XMI	
C16			CE04KW1HR33M	ELECTRO 0.33UF 50WV	ET	
C17			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C18			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C19			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C20			CE04KW1E4R7M	ELECTRO 4.7UF 25WV		
C21 -23			CK45FF1H223Z	CERAMIC 0.022UF Z		
C24			CE04KW1C100M	ELECTRO 10UF 16WV		
C25			CC45SL1H220J	CERAMIC 22PF J		
C26		*	SH1015900044	CERAMIC 0.01UF J		
C27			CK45FB1E102K	CERAMIC 1000PF K		
C28 -30			CE04KW1C100M	ELECTRO 10UF 16WV		
C31 ,32			CC45FSL1H221J	CERAMIC 220PF J	ET	
C31 ,32			CC45SL1H390J	CERAMIC 39PF J	XMI	
C33 ,34		*	SH1125900164	CERAMIC 3300PF J		
C35 ,36			SH1125900162	CERAMIC 0.012UF J	XMI	

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

T-47/L

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C37 ,38			CC45SL1H221K	CERAMIC 220PF K	ET	
C39 ,40			SH1205900093	CERAMIC 4700PF 25WV	XMI	
C41			CE04KW1C100M	ELECTRO 10UF 16WV		
C42 ,43			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C45			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C46			CE04KW1HR22M	ELECTRO 0.22UF 50WV		
C47			CE04KW1C470M	ELECTRO 47UF 16WV		
C48		*	SH1305900119	CERAMIC 0.047UF M		
C49			CK45FF1H473Z	CERAMIC 0.047UF Z	XMI	
C50			CC45RH1H150J	CERAMIC 15PF J	XMI	
C51			CK45FF1H473Z	CERAMIC 0.047UF Z	ET	
C52			CK45FF1H223Z	CERAMIC 0.022UF Z	ET	
C53			CC45CH1H180J	CERAMIC 18PF J	ET	
C54			CQ09FS1H471J	POLYSTY 470PF J	ET	
C55			CC45CH1H180J	CERAMIC 18PF J	ET	
C56			CQ09FS1H681J	POLYSTY 680PF J	ET	
C57			CC45UJ1H270J	CERAMIC 27PF J	ET	
C58			CQ09FS1H221J	POLYSTY 220PF J	ET	
C59			CC45UJ1H270J	CERAMIC 27PF J	ET	
C60			CK45FF1H223Z	CERAMIC 0.022UF Z	ET	
C61 ,62			CC45CH1H150J	CERAMIC 15PF J		
C63 -65			CC45SL1H471K	CERAMIC 470PF K		
C66			CK45FF1H223Z	CERAMIC 0.022UF Z		
C67			CE04KW1C470M	ELECTRO 47UF 16WV		
C68			SH1205900091	CERAMIC 0.027UF J		
C69			CE04KW1H2R2M	ELECTRO 2.2UF 50WV	ET	
C69			CE04KW1H4R7M	ELECTRO 4.7UF 50WV	XMI	
C70 ,71			CC45SL1H221K	CERAMIC 220PF K		
C72			CK45FF1H103Z	CERAMIC 0.010UF Z		
C75			CK45FF1H223Z	CERAMIC 0.022UF Z		
C76 ,77			CE04KW1H101M	ELECTRO 100UF 50WV		
C78		*	SH1425900118	ELECTRO 220UF 50WV		
C79		*	SH1305900815	ELECTRO 330UF 50WV		
C80			CE04KW1E102M	ELECTRO 1000UF 25WV	XMI	
C80			CE04KW1E222M	ELECTRO 2200UF 25WV	ET	
C81			CE04KW1E101M	ELECTRO 100UF 25WV		
C82			CE04KW1C101M	ELECTRO 100UF 16WV		
C83 ,84			CE04KW1H100M	ELECTRO 10UF 50WV		
C85			CE04KW1C470M	ELECTRO 47UF 16WV		
C86			CE04KW1A471M	ELECTRO 470UF 10WV		
C87			C90-1827-05	BACKUP 0.047F 5.5WV		
C88			CK45FF1H223Z	CERAMIC 0.022UF Z		
C89			CC45FSL1H221J	CERAMIC 220PF J	ET	
C89			CC45SL1H680J	CERAMIC 68PF J	XMI	
C90			CE04KW1C470M	ELECTRO 47UF 16WV		
C91 -94		*	SH1305900815	ELECTRO 330UF 50WV		
C95			CC45SL1H221K	CERAMIC 220PF K		
C96			CC45SL1H220J	CERAMIC 22PF J	ET	
C99			SH1305900596	CERAMIC 0.022UF 25WV	ET	
C101			CK45FF1H223Z	CERAMIC 0.022UF Z	ET	
C102			CE04KW1E222M	ELECTRO 2200UF 25WV	XMI	
C500			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C501			CK45FF1H223Z	CERAMIC 0.022UF Z		
C502			CC45CH1H270J	CERAMIC 27PF J		
C503			CC45CH1H330J	CERAMIC 33PF J		

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PARTS LIST

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Parts without Parts No. are not supplied.
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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向	Remarks 備考
C506		*	SH1305900745	CERAMIC 0.1UF J		
C507		*	SH1255940009	NP ELECT 10UF 25WV		
C508			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C509		*	SH1305900721	CERAMIC 0.1UF Z		
C511			CE04KW1V101M	ELECTRO 100UF 35WV		
C512			C90-3506-08	CERAMIC 0.047UF Z		
T01		*	C05-0224-08	TRIM CAP LW RF ADJ	ET	
T02		*	C05-0225-08	TRIM CAP MW RF ADJ	ET	
CP3		*	E58-0007-08	FLAT CABLE CONNECTOR POWER		
S01			E20-0476-05	TERMINAL BOARD ANTENNA	XMI	
S02			E20-0321-05	TERMINAL BOARD ANTENNA	ET	
CF1 ,2		*	L72-0579-08	CERAMIC FILTER	ET	
CF1 ,2		*	L72-0580-08	CERAMIC FILTER	XMI	
CF3			L72-0096-05	AM OSC		
CF4			L78-0286-05	RESONATOR 456kHz		
L1			L40-2281-17	SMALL FIXED INDUCTOR (0.22UH)		
L500,501			L40-2291-17	SMALL FIXED INDUCTOR (2.2UH)		
T1		*	L30-0908-08	FM IFT		
T2		*	L30-0909-08	AM IFT		
T3		*	L39-1326-08	LOW PASS FILTER	ET	
T4		*	L39-1327-08	AM OSC	XMI	
T5		*	L31-0611-08	RF COIL	ET	
T6		*	L31-0612-08	RF COIL	ET	
T7		*	L32-0564-08	OSCILLATING COIL	ET	
T8		*	L32-0565-08	OSCILLATING COIL	ET	
T9 ,10		*	L35-0071-08	MPX FILTER		
T11		*	L19-0074-08	BALUN COIL	ET	
XL1			L77-1122-05	CRYSTAL RESONATOR 7.20MHz		
XL500			L77-1175-05	CRYSTAL RESONATOR 4.19MHz		
⚠ FR2			SH1105810605	FUSE-R 6.8 J 1/4W		
R74 ,75			RD14BB2H101J	RD 100 J 1/2W		
R97		*	SH1105810673	RS 330 J 1W	XMI	
R107		*	SH1105810664	RS 270 J 2W		
R112-117		*	SH1105810663	RS 120 J 2W	ET	
R112-117		*	SH1105810677	RS 150 J 2W	XMI	
VR1 ,2			R12-3688-05	TRIM POT 47K B-WIDTH,T-LEVEL		
VR3			R12-3688-05	TRIM POT 47K SEPARATION	ET	
VR3			R12-5652-05	TRIM POT 220K SEPARATION	XMI	
S1		*	S60-0025-08	SLIDE SWITCH CH-SPAN	XMI	
S500-526		*	S70-0024-08	TACT SWITCH KEY BOARD		
S527		*	S60-0026-08	ROTARY SWITCH TUNING		
D1 ,2			1SS133	DIODE	ET	
D3 -8			1SS133	DIODE		
⚠ D9 -15		*	RL104T	DIODE		
D16 -18			1SS133	DIODE		
D19		*	RL104T	DIODE	XMI	
D500-509			1SS133	DIODE		
D510,511			1SS133	DIODE	ET	
D512			1SS133	DIODE	XMI	
D513-516			1SS133	DIODE		
D517			1SS133	DIODE	XMI	
D518,519			1SS133	DIODE		
FL500			FIP11AM7R	INDICATOR TUBE		

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IC1		*	LA1265S	IC(AM/FM TUNER)		
IC2			LA3401	IC(FM MPX)		
IC3			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC500		*	IX2201	IC(MICORPROCESSOR)		
Q1			2SC3800	TRANSISTOR		
Q2 -4			2SC1740SR	TRANSISTOR	ET	
Q5			DTC144ES	DIGITAL TRANSISTOR	ET	
Q6			DTC144ES	DIGITAL TRANSISTOR		
Q7			DTA144WS	DIGITAL TRANSISTOR		
Q8 ,9			2SC1740SR	TRANSISTOR	XMI	
Q12			2SA933SR	TRANSISTOR	ET	
Q13 ,14			2SA933SR	TRANSISTOR		
Q15 ,16			2SC1740SR	TRANSISTOR		
Q18			2SD2012	TRANSISTOR		
Q19			2SA933SR	TRANSISTOR		
Q20			DTC114ES	DIGITAL TRANSISTOR		
Q21			2SC1740SR	TRANSISTOR		
Q22			DTC114YS	DIGITAL TRANSISTOR		
Q23			2SD1858R3	TRANSISTOR		
Q24			2SC1740SR	TRANSISTOR		
Q500			DTC144ES	DIGITAL TRANSISTOR		
Q501			2SC1740SR	TRANSISTOR		
Q502			2SA933SR	TRANSISTOR	XMI	
VD1		*	KV1236Z23F	VARI-CAP DIODE	ET	
ZD1		*	MTZJ12BT	ZENER DIODE		
ZD2		*	MTZJ6R2C	ZENER DIODE		
ZD3			MTZJ16A	ZENER DIODE		
ZD4		*	MTZJ5.1A	ZENER DIODE		
ZD500			MTZJ6.2B	ZENER DIODE		
FE1		*	W02-1183-08	TUNER MODULR	ET	
FE1		*	W02-1184-08	TUNER MODULE	MX	

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T-47/L

SPECIFICATIONS

T-47

FM tuner section

Tuning frequency range ..... 87.5MHz~108MHz
Antenna impedance ..... 300Ω balanced/ 75Ω unbalanced
Sensitivity (IHF) ..... 10.8dBf (0.95μV at 75Ω)
50dB quieting sensitivity
MONO ..... 22.1dBf (3.5μV at 75Ω)
STEREO ..... 44.3dBf (45μV at 75Ω)
Total harmonic distortion at 1,000Hz
MONO 0.4%
STEREO 0.5%
Signal to noise ratio at 65dBf (IHF)
MONO 76dB
STEREO 68dB
Selectivity (IHF ±400kHz) 50dB
Stereo separation (IHF at 1kHz) 40dB
Frequency response ..... 30Hz~15kHz, +0.5dB, -3.0dB

AM Tuner section

Tuning frequency range
9kHz step ..... 531kHz~1,602kHz
10kHz step ..... 530kHz~1,610kHz
Usable sensitivity ..... 13μV/(500μV/m)
Total harmonic distortion 0.6%
Signal to noise ratio 50dB

General

Dimensions ..... W : 360 mm
H : 94 mm
D : 326 mm
Weight 3.0kg

T-47L

Sezione sintonizzatore FM

Gamma sintonizzazione frequenze .... 87,5MHz~108MHz
Impedenza antenna ..... 75 Ω non bilanciata
Sensibilità (DIN)
MONO 0,6μV
STEREO 25μV
Distorsione armonica totale
(a 1.000Hz, 65,2dBf ingresso, DIN)
MONO 0,3%
STEREO 0,8%
Rapporto S/R
(DIN pesato ad 1kHz, 65,2dBf di ingresso)
MONO 70dB
STEREO 63dB
Sensibilità (DIN ±300kHz) 64dB
Separazione stereo (DIN a 1kHz) 42dB
Risposta in frequenza ..... 30Hz~15kHz, +0,5dB, -3,0dB
Sezione sintonizzatore MW
Campo di frequenza ..... 531kHz~1.602kHz
Sensibilità utilizzabile ..... 13μV/(500μV/m)
Distorsione armonica totale 0,6%
Rapporto S/R 50dB

Sezione sintonizzatore LW
Campo di frequenza ..... 153kHz~281kHz
Sensibilità utilizzabile 20μV
Distorsione armonica totale 0,6%
Rapporto S/R 47dB

Generalità

Dimensioni ..... L : 360 mm
A : 94 mm
P : 326 mm
Peso (netto) 3,0kg

KENWOOD follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement.
Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige Verbesserungen in der Entwicklung an.
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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